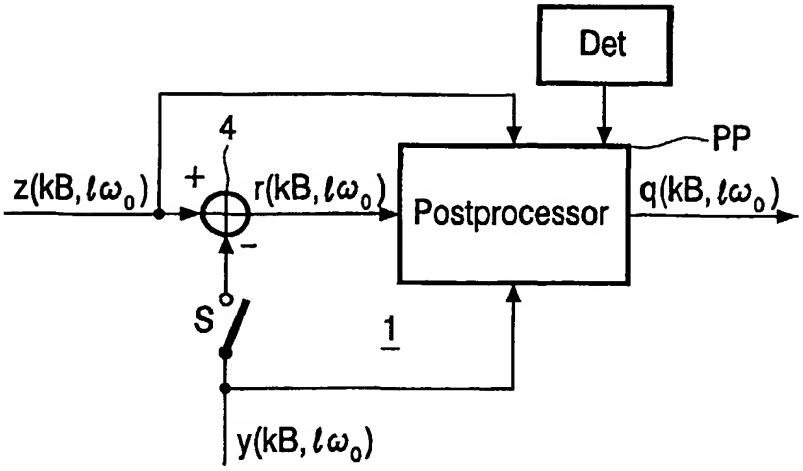


Fig.1

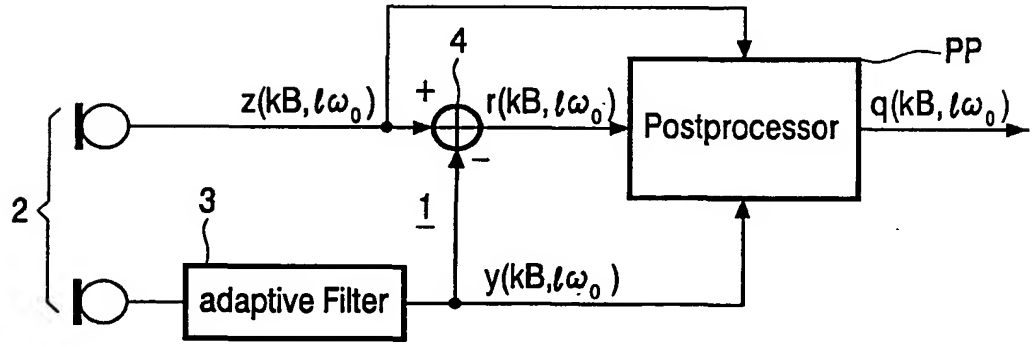


Fig.2a

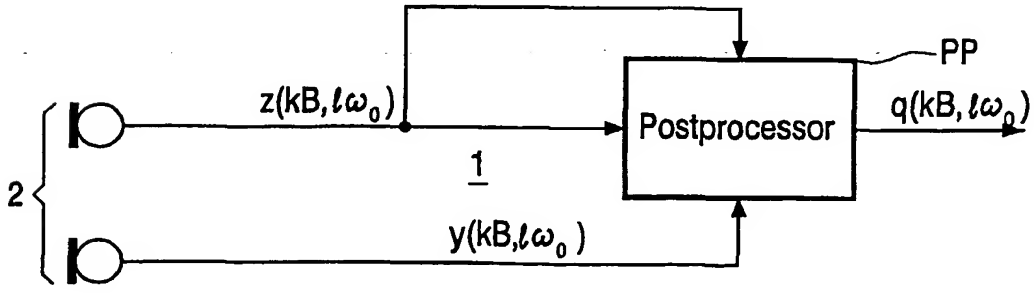


Fig.2b

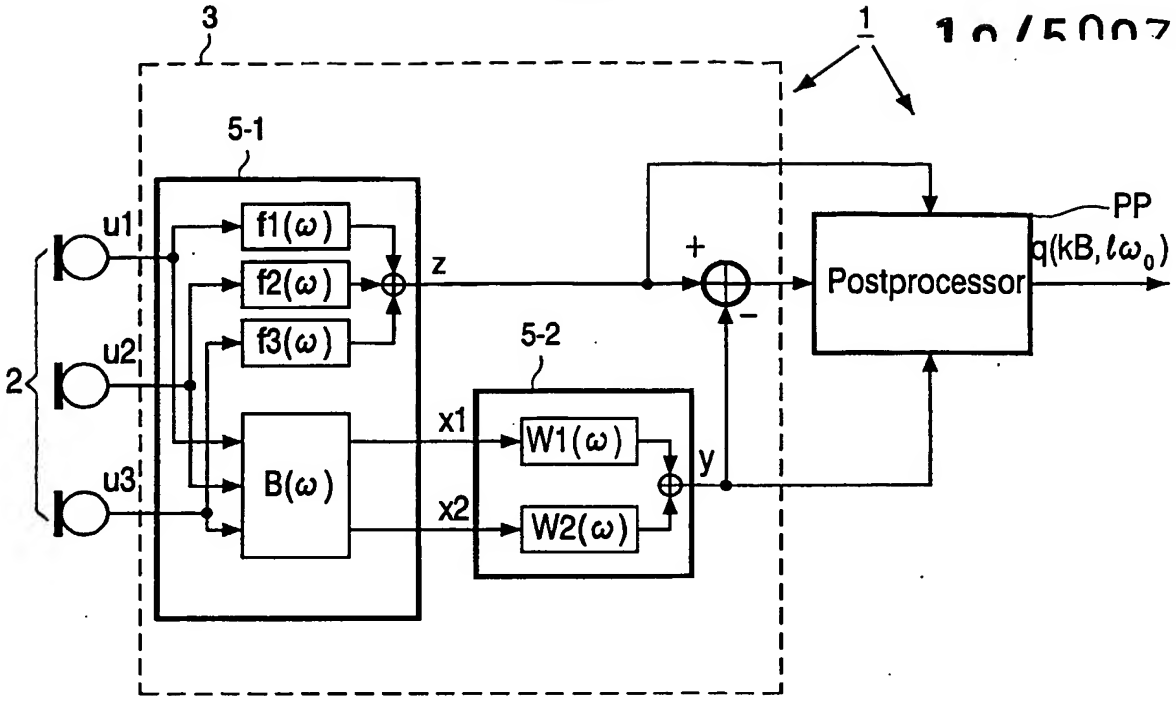
3
1
5-1
u1
u2
u3
2
f1(ω)
f2(ω)
f3(ω)
B(ω)
z
5-2
x1
x2
W1(ω)
W2(ω)
y
+
−
Postprocessor
PP
q(kB, lω0)

Fig.3

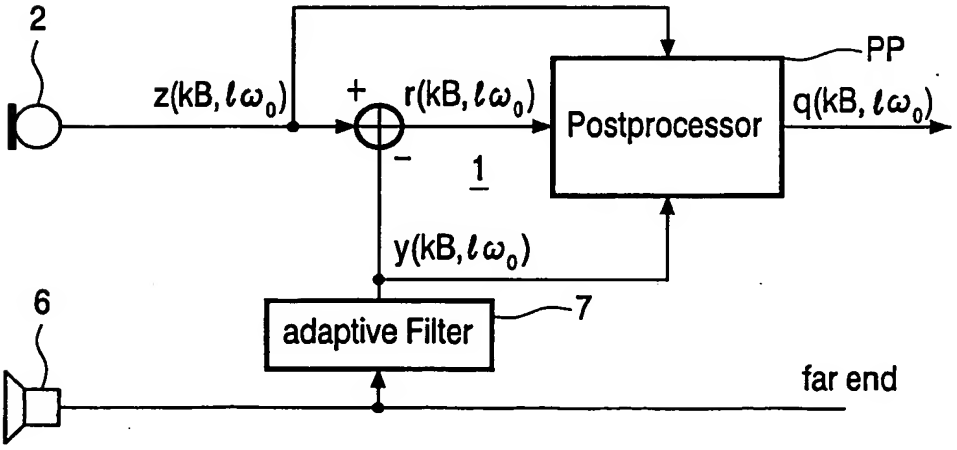
2
z(kB, lω0)
+
r(kB, lω0)
−
1
Postprocessor
PP
q(kB, lω0)
y(kB, lω0)
6
adaptive Filter
7
far end

Fig.4

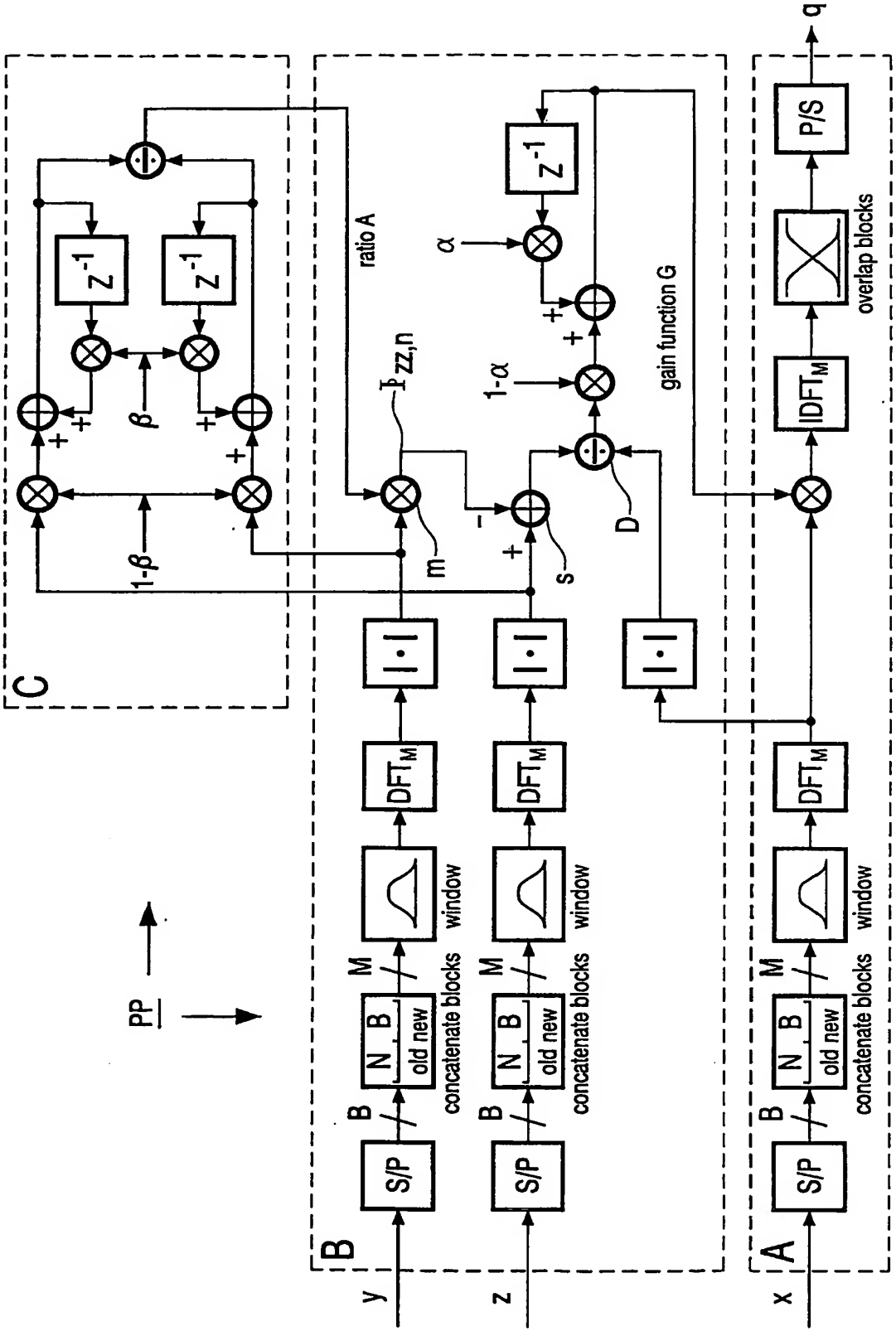
C
B
A
x
y
z
q
S/P
B
N
old new
M
concatenate blocks
window
DFT$_M$
|·|
ratio A
$\hat{P}_{zz,n}$
m
s
D
gain function G
$\alpha$
1-$\alpha$
$\beta$
1-$\beta$
$z^{-1}$
IDFT$_M$
overlap blocks
P/S
PP

Fig.5